

Portia's Oregon Report

PRIORITY



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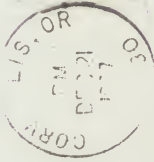
634 S. Central Expressway
Richardson, TX 75080

to Dr. Theodore Nelson
~~Department of Mathematics~~ P.O. Box 128
~~Swathmore College~~
Swathmore, PA 19081

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OREGON REPORT ON COMPUTING

Mr. Theodor Nelson
c/o Dr. Portia Isaacson
The Micro Stove
634 South Central Expressway
Richardson, TX 75080



OREGON REPORT ON COMPUTING



Steering Committee:

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REPLY TO: Dr. Ted G. Lewis

Oregon State University

Computer Science Department

Corvallis, Oregon 97331

Public Agenda

Report Co-Chairmen:

T. Lewis, Oregon State University

B. Shriver, University of Southwestern
Louisiana

Publicity And Attendance:

T. Hamm, Tektronix

Local Arrangements:

P. Fasang, University of Portland

Futurologists:

M. Wilkes, Cambridge

A. Ralston, State University, New York

E. Joseph, Sperry-Rand-Univac

Welcome:

R. MacVicar, President, Oregon State University

Keynote Speaker:

R. Nyman, Department of Defense

Leaders And Their Sessions:

H. Caswell, I.B.M., Basic Technology

D. Hsiao, Ohio State, Database Systems

P. Isaacson, Micro Store, Personal Computing

U. Pooch, Texas A & M, Education/Training

B. Shriver, U.S.L., Distributed Arch.

A. Wasserman, U.C.San Francisco, Software Engr.

H. Wiener, Computer Decisions Magazine,
Political/Social/Economic Impact

Monday March 20, 1978

- 10:00 - 10:20 Welcome, Dr. Robert MacVicar, President, Oregon State University.
- 10:20 - 11:10 Keynote Address. Mr. Thomas Nyman, Department of Defense.
- 11:10 - 11:20 Introduction To The Program. Dr. Bruce Shriver, University of Southwestern Louisiana.

Session Overviews: Session Leaders

- 11:20 - 12:30 Basic Technology: H. Caswell, I.B.M.
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Personal Computing: P. Isaacson, The Micro Store.
Education/Training: U. Pooch, Texas A & M.
Computer Systems Organization: B. Shriver, University of Southwestern Louisiana.
Software Engineering: A. Wasserman, University of California, San Francisco.
Political/Social/Economic Impact: H. Wiener, Computer Decisions Magazine.
- 12:30 - 2:00 Lunch
- 2:00 - 5:45 Tours and sightseeing.

Tuesday March 21, 1978

- 8:30 - 10:15 Basic Technology: H. Caswell.
E. Eichelberger, I.B.M.; W. Holton, Texas Instrument;
S. Krishnaswamy, Honeywell; D. Carter, Texas Instrument;
W. Lattin, Intel; P. Losleben, National Security Agency;
R. Petschauer, Univac; H. Stopper, Burroughs;
R. Sullivan, Honeywell.
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B. Shriver
H. Stone, University of Massachusetts; J. Thornton, Network Systems; R. Case, I.B.M.; Borgerson, Univac;
S. Fuller, Carnegie-Mellon University; W. Watson, Texas Instrument.

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P. Bernstein, Harvard; V. Lum, I.B.M.; S. Schuster,
University of Toronto; D. Smith, University of Utah;
J. Rothnie, Computer Corp. Amer.
- 3:30 - 5:15 Education/Training: U. Pooch.
M. Mulder, Bonneville Power; T. Frederick, Florida Tech.;
C. Ramamoorthy, U.C.-Berkeley; D. Crockett, Hewlett-
Packard; R. Chartergy, University of Hawaii; G. Austing,
University of Maryland; R. DeSio, SRI.
- 7:30 - 9:15 Personal Computing: P. Isaacson
T. Nelson, Swarthmore College; R. Heiser, Computer Store;
R. Gammill, RAND; A. Goldberg, Xerox; A. Osborne,
Osborne Assoc.; J. Warren, West Coast Computer Faire.

Wednesday March 22, 1978

- 8:30 - 10:15 Software Engineering: A. Wasserman
L. Belady, I.B.M.; S. Gerhart, Info. Sciences Institute;
E. Miller, Software Research Assoc.; W. Waite, University
of Colorado; W. Wulf, Carnegie-Mellon.
- 10:30 - 12:15 Political/Social/Economic Impact: H. Wiener
F. Kruger, Helen Keller Center For the Deaf-Blind;
A. Kay, Xerox; J. Overton, Senator Goldwater's Office;
H. Anderson, President, The Yankee Group.
- 1:30 - 3:15 Evaluation By Futurologists: T. Lewis
M. Wilkes, Cambridge;
A. Ralston, State University New York;
E. Joseph, Univac
(30 - 40 minute speech by each evaluator).

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**PLEASE CHECK
ACCOMODATIONS:**

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PROBLEMS OF THE 80'S

MARCH 19 - 22, 1978

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If you plan to arrive after 6:00 p.m., a deposit equal to one
night's lodging is required. Checkout time is 12 Noon. Rooms are
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Prospectus

PROBLEMS OF THE '80's: *The Oregon Report on Computing*

March 20-22nd, 1978
Portland, Oregon

The PROBLEMS OF THE '80's meeting will address contemporary issues of computer systems in an attempt to prognosticate what problems will be central to computing in the systems of the next decade. The participants of the meeting will be called upon to project potential solutions to these problems. The basic approach will be to contest in depth what problems we and our technology are creating for ourselves and others. The meeting will bring together experts in many fields related to the design, implementation and use of computers in order to make definitive reports which will serve as a basis for research and development efforts in the years to come. Each expert will prepare a position paper analyzing the current state of their field and projecting future problems. Each group of experts in a given field of specialization who have been invited to participate will produce a "blueprint report", based on the position papers, which will be drawn up on the first day of the meeting. The blueprint reports will then be presented to the group as a whole over the next two days. These reports will explore the following:

- (A) Major obstacles or progress in this field.
- (B) Significant steps currently being made to overcome the obstacles.
- (C) Advances or breakthroughs needed to accomplish the solutions to the problems.
- (D) Costs of the solutions and/or breakthroughs.
- (E) Effects of the solutions and/or breakthroughs on computing in the 1980's.

The reports will be surveys having a high technical content and assume familiarity with the field of specialization. They are intended to become guideposts for practitioners and researchers for follow-on investigations and they will be published in a special issue of the IEEE's Computer Magazine. The following fields of specialization will be represented at the meeting:

Software Engineering
Education and Training
Databases and Database Management
Computer Systems Organization,
Distributed Systems, and Networking
Social/Politic/Economic/Legal Issues
Users and Applications
Artificial Intelligence
Basic Technology

call for papers

PROBLEMS OF THE '80's:
The Oregon Report on Computing

The computer industry is, in fact, coming of age. Recent projections assert that within a decade it will contribute the same amount to the GNP of the United States as will the automotive industry. It will be assuming this important economic role, with its subsequent political and social implications, within a very short time frame, a time frame which has not accommodated a directed or orderly growth. The PROBLEMS OF THE '80's will make an assessment of the status of contemporary computer systems in an attempt to prognosticate what problems will be central to computing in the systems of the next decade. The conference participants will be called upon to project potential solutions to these problems. Papers which contest what problems we and our technology are creating for ourselves and others in the 1980's are herein solicited. The Meeting will broadly encompass the following areas of theory and practice as related to future systems:

Software-Engineering
Education and Training
Databases and Database Management
Computer Systems Organizations,
Distributed Systems, and Networking
Social/Economic/Political/Legal Issues
Users and Applications
Artificial Intelligence
Basic Technology

The papers should explore the following issues with respect to any of the above areas:

- (a) major problems or obstacles
- (b) significant steps currently being made to overcome the obstacles
- (c) advances or breakthroughs which are needed to accomplish the solutions to problems/obstacles
- (d) costs of the solutions/breakthroughs
- (e) effects of the solutions/breakthroughs on computing in the 1980's.

The papers should have "high technical" content and address "leading edge" questions and problems in the above areas.

INSTRUCTIONS FOR SUBMITTING PAPERS

1. Submit three copies of the full paper, not to exceed 30 double-spaced typewritten pages, including diagrams, to:

T.G. Lewis
Computer Science Department
Oregon State University
Corvallis, Oregon 97331
(503) 754-3273

or

B.D. Shriver
Computer Science Department
University of Southwestern Louisiana
Lafayette, Louisiana 70504
(318) 233-3850

2. Each paper should have a title page, which includes the title of the paper and, for each author, that author's full name, affiliation, complete address, and telephone number.
3. The first page should include the title, authors' names, and a 250-word abstract of the paper.

IMPORTANT DATES

Papers must be mailed to arrive by 15 November 1977. Notification of accepted papers will be sent by 15 January 1978. Final revised papers, in camera-ready form, will be due 15 March 1978. The conference will be held 20-22 March 1978 at the Sheraton-Portland Hotel, Portland, Oregon.

MEETING FORMAT AND PUBLICATIONS

The papers submitted will be refereed and those selected for presentation at the Meeting will be printed in the Conference Proceedings. Each group of participants who have been invited to make presentations will produce a report which will be developed on the first day of the Meeting. These definitive reports are to serve as a basis for research and development efforts in future years. These "blueprints for investigations" will be published in a special issue of the IEEE's Computer Magazine.

SPONSORS

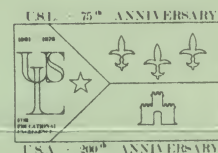
"PROBLEMS OF THE '80's: *The Oregon Report on Computing*" is co-sponsored by the Computer Science Departments of Oregon State University and the University of Southwestern Louisiana, with the cooperation of the ACM and the IEEE Computer Society. Initial development activities for the meeting were made possible by a financial grant from Tektronix.



acm



IEEE COMPUTER SOCIETY



REGISTRATION RATES

	Pre-Conference	Conference
Non-student	\$60	\$75
Student	\$35	\$50

The registration fees include two lunches, all coffee and tea breaks, one cocktail hour, and a copy of the conference digest.

THE MICRO STORE
634 S. CENTRAL EXPRESSWAY
RICHARDSON, TEXAS 75080

PONTIAC'S OREGON REPORT



TED NELSON
~~DEPT. OF MATH.~~
~~SWATHMORE COLLEGE~~
SWATHMORE, PA 19081
P.O. Box 128

FIRST CLASS

OREGON REPORT ON COMPUTING



Steering Committee:

January 3, 1978

REPLY TO: _____

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TO: Personal Computing Wizards
CC: Ted Lewis, B. D. Shriver
FROM: Portia
SUBJECT: The time has come to do it very soon

Since we have ignored the deadline in the call for papers and the conference approaches rapidly, we need a much accelerated schedule to produce our papers. I suggest the following:

January 10	All session participants will send to other session participants a short outline or abstract of their position paper so that we know each others perspectives.
January 27	All drafts of papers sent by author to all other session participants.
February 10	All comments by other session participants returned to author.
February 24	Revised paper sent by author to me.
March 1	Papers forwarded by me to Conference Chairman.
Rest of March	Work on joint blueprint paper

To review --

The papers should explore the following issues:

(a) major problems or obstacles

January 3, 1978

Oregon Report on Computing

Page 2

Memo: The time has come to do it very soon

- (b) significant steps currently being made to overcome the obstacles
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- (d) costs of the solutions/breakthroughs
- (e) effects of the solutions/breakthroughs on computing in the 1980's:

The papers should have "high technical" content and address "Leading edge" questions and problems in the above areas.

It is very important that we adhere to the above schedule. It's going to be fun!

See you in Oregon.

A handwritten signature consisting of a long, sweeping horizontal line that curves upwards at the right end, with two short vertical lines extending downwards from the center of the horizontal line.

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PERSONAL COMPUTING SESSION

Participants

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820 Broadway
Santa Monica, CA 90401

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Xerox Corporation
Palo Alto Research Center
Palo Alto, CA 94304

Bob Gammill
Rand Corporation
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Santa Monica, CA 90406

Adam Osborne
Osborne and Associates, Inc.
P.O. Box 2036
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Jim Warren
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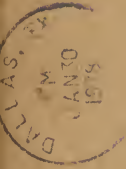
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- 10:30 - 12:15 Political/Social/Economic Impact: H. Wiener
F. Kruger, Helen Keller Center For the Deaf-Blind;
A. Kay, Xerox; J. Overton, Senator Goldwater's Office;
H. Anderson, President, The Yankee Group.
- 1:30 - 3:15 Evaluation By Futurologists: T. Lewis
M. Wilkes, Cambridge;
A. Ralston, State University New York;
E. Joseph, Univac
(30 - 40 minute speech by each evaluator).

THE MICRO STORE
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PORTIA'S REPORT ON COMPUTING, 1978

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Recd 1 Feb 78

THE OREGON REPORT ON COMPUTING

PAPER OUTLINE

by Portia Isaacson

I. Goal of Personal Computing --

A portable personal computer (Dynabook) affordable by everyone

II. Major Problems --

- Technical -- need improvements in all aspects of the technology to build Dynabook inexpensively
- Man/Machine Interface -- need improved graphics, input (keyboard, etc.), and languages
- User Acceptance -- user demand must be created through massive marketing campaign

III. Advance needed --

- Technical -- itemized list
- Man/Machine Interface
- User acceptance

IV. Costs --

Who will do research and their motivation

V. Effects

- Computer industry
- Other

(See attached paper)

CITATION OF TN BY PORTIA.